



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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(21) International Application Number: PCT/KR99/00085 (22) International Filing Date: 25 February 1999 (25.02.1999) (30) Priority Data: 1998/27004 U 29 December 1998 (29.12.1998) KR (60) Parent Application or Grant CHO, Dae-Jin [/]; (). CHO, Dae-Jin [/]; ().	Published	
(54) Title: APPARATUS FOR PROSTATE TREATMENT (54) Titre: APPAREIL POUR LE TRAITEMENT DE LA PROSTATE		
(57) Abstract <p>The disclosure is an apparatus for a prostate treatment having an inserting stick of the size like a finger, which simultaneously serves as a grip and is covered by a transparent cover cap of synthetic resins material closed in a form of a semisphere at the front part thereof to be fixed to the body, wherein the inside of the cover cap is covered by transparent far infrared ray radiation covering layer of a far infrared radiation material.</p> (57) Abrégé <p>L'invention concerne un appareil pour le traitement de la prostate formé d'un bâtonnet d'insertion de la taille d'un doigt qui est recouvert d'une protection transparente en résine synthétique dont le bout se termine en semi-sphère et est inséré dans le corps. L'intérieur de la protection est enduit d'une couche transparente de rayonnement infrarouge lointain fabriquée en une matière de rayonnement infrarouge lointain.</p>		

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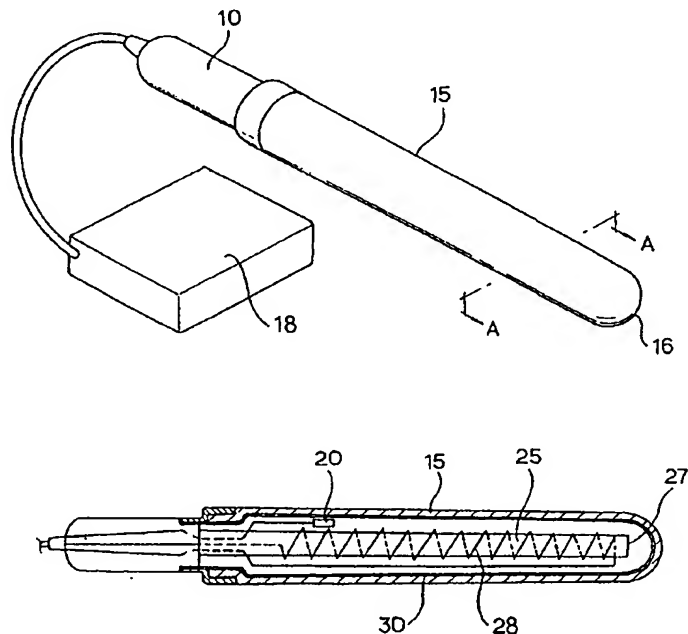
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(21) International Application Number: PCT/KR99/00085 (22) International Filing Date: 25 February 1999 (25.02.99) (30) Priority Data: 1998/27004 U 29 December 1998 (29.12.98) KR (71)(72) Applicant and Inventor: CHO, Dae-Jin [KR/KR]; Chungun Apt. 1-206, 4-25 Chungun-dong, Jongro-ku, Seoul 110-030 (KR).		(81) Designated States: JP (Utility model), US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i>

(54) Title: APPARATUS FOR PROSTATE TREATMENT

(57) Abstract

The disclosure is an apparatus for a prostate treatment having an inserting stick of the size like a finger, which simultaneously serves as a grip and is covered by a transparent cover cap of synthetic resins material closed in a form of a hemisphere at the front part thereof to be fixed to the body, wherein the inside of the cover cap is covered by transparent far infrared ray radiation covering layer of a far infrared radiation material.



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Description

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APPARATUS FOR PROSTATE TREATMENT

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5 Technical Field

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The present invention relates to an apparatus for treating a prostatitis and a hypertherophy of a prostate.

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And, particularly in the apparatus according to the present invention, a transparent inserting stick of a size like a

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finger is inserted so as to be adjacent to the prostate

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through an anus, and then the far infrared ray generated

therein and heat of very long frequency alternation magnetic

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field are transmitted to the prostate to maintain a temperature of 45°C, that is the temperature for most

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inactivating cancerous cell, thereby controlling a

multipulation of bacteria and promoting the circulation of

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blood.

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Background Art

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Generally, the prostate is deeply positioned in a body

and accordingly, it is difficult to treat the prostatitis

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and hypertherophy of the prostate and thereby, the prostatitis are easily cured by performing a heat remedy, together with performing an operation or medicine treatment.

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A conventional anus inserting stick of an aluminum provided only the heat by an electric heat ray with aluminum and the heat by the very long frequency alternation magnetic field, and accordingly, in case of using this opaque aluminum, other treatment method besides the heat remedy and the very long frequency remedy could not be accomplished.

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In the present invention, since the anus inserting stick is covered by a far infrared ray radiation covering layer so that the far infrared ray is appeared to an inside of the transparent synthetic resins member, the far infrared ray may be deeply transmitted into a skin and accordingly, a treatment effect can be promoted.

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Disclosure of Invention

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Accordingly, an object of the present invention is to provide an apparatus for a prostate treatment having an inserting stick of the size like a finger, which

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simultaneously serves as a gripe and is covered by a transparent cover cap of synthetic resins material closed in a form of a semisphere at the front part thereof to be fixed to the body, wherein the inside of the cover cap is covered by transparent far infrared ray radiation covering layer of a far infrared radiation material.

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To achieve these and other advantages and in accordance with the purpose of the present invention, as embodied and broadly described, a surface of the transparent cover cap is formed in a shape of a cylinder or a superficial surface and accordingly, is easily inserted and escaped to/from the anus. Thus, the far infrared ray radiation layer is continuously formed on an inside thereof.

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15 Brief Description of Drawings

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The present invention will become more fully understood from the detailed description given hereinbelow and the accompanying drawings which are given by way of illustration only, and thus are not limitative of the present invention, and wherein:

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Fig. 1 is a perspective view of an apparatus in

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accordance with the present invention;

Fig. 2 is a sectional view of Fig. 1; and

Fig. 3 is a sectional view taken along A-A line of Fig.

1.

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Best Mode for carrying Out the Invention

In Fig 1, an apparatus in accordance with the present invention is largely formed of a body 10 and a controller 18, and the body 10 simultaneously serving as a gripe is covered by a transparent cover cap 15 of a synthetic resins material to be fixed.

In Fig. 2, the inside of the transparent cover cap 15 is covered by the far infrared ray radiation covering layer 30 of the far infrared radiation material. For the remedy using the heat transmitted near the prostate through the anus, the electromagnetic assembly body 25 formed by covering the circumference of the silicon core 27 with the coil is built in the transparent cover cap 15 combined to the body 10, that is, the inserting stick to be connected to an external controller 18. A temperature sensor 20 is built near the electromagnetic assembly body 25 and thereby, the

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temperature of 43°C-45°C is maintained by the external controller 18. And then, the temperature 45°C for most inactivating the cancerous cell is maintained while a very low frequency is generated, and the far infrared ray is at the same time generated in the far infrared ray radiation covering layer covering the transparent cover cap by then generated heat, thereby being deeply transmitted to the skin.

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In Fig. 3, the inside of the transparent cover cap 15 is covered with the far infrared ray radiation material 30 to radiate the far infrared ray along with the heat generated from the electromagnetic assembly body 25, thereby promoting the circulation of blood.

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Accordingly, the apparatus in accordance with the present invention may be inserted near the prostate in a shape of to be inserted into the anus, thereby providing the far infrared ray to the prostate, simultaneously with performing the heat remedy and very low frequency remedy, for the treatment of the prostatitis frequently generated in men. Thereby, the inventive apparatus has advantages capable of promoting treatment effect and being simply used without

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a use of an operation or complex physical remedy.

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Although the preferred embodiments of the present invention have been disclosed for illustrative purposes, those skilled in the art will appreciate that various modifications, additions and substitutions are possible, without departing from the scope and spirit of the invention as recited in the accompanying claims.

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Claims

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WHAT IS CLAIMED IS:

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1. An apparatus for a prostate treatment having an inserting stick of the size like a finger, which simultaneously serves as a gripe and is covered by a transparent cover cap of synthetic resins material closed in a form of a semisphere at the front part thereof to be fixed to the body, wherein the inside of the cover cap is covered by transparent far infrared ray radiation covering layer of a far infrared radiation material.

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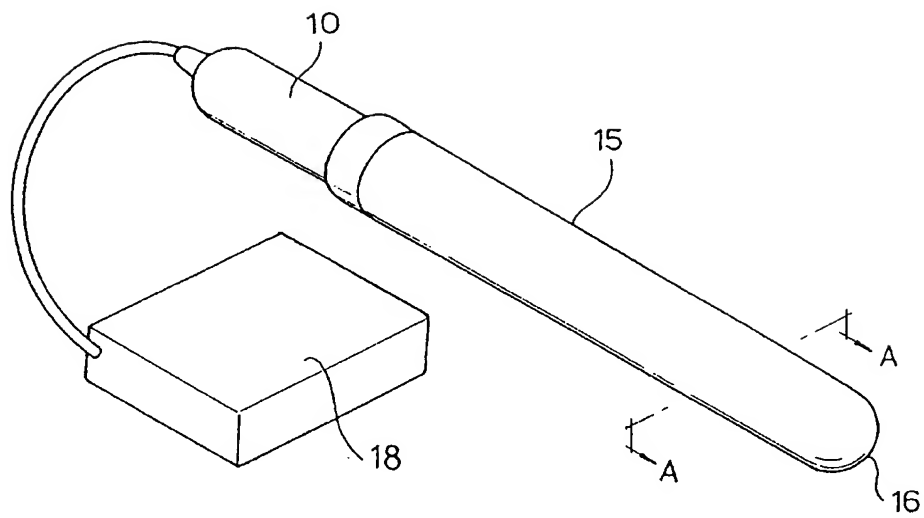
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FIG. 1



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FIG. 2

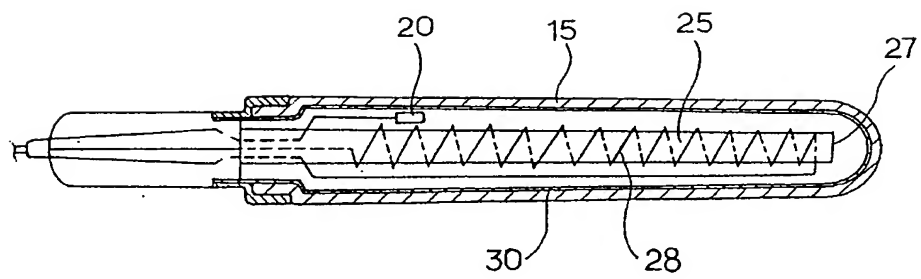
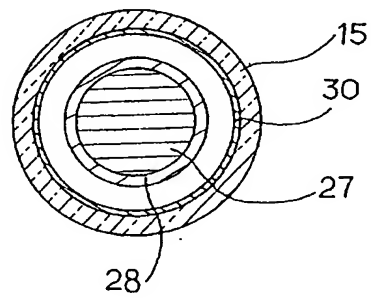


FIG. 3



INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR 99/00085

A. CLASSIFICATION OF SUBJECT MATTER		
IPC ⁷ : A 61 N 5/06		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols)		
IPC ⁷ : A 61 N, A 61 H		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
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EPODOC, CLTXTE		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4983851 A (MASUDA) 08 January 1991 (08.01.91), abstract; fig. 1; column 1, line 55-68; column 3, line 12-20, 42-47; column 4, line 50-54; claims 1,2,11,13.	1
Y	US 5800478 A (CHEN) 01 September 1998 (01.09.98), abstract; fig. 1.	1
A	US 4804240 A (MORI) 14 February 1989 (14.02.89), abstract; fig. 4. -----	1
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
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Information on patent family members

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Patent document cited in search report			Publication date	Patent family member(s)		Publication date
US	A	4983851	08-01-1991	JP	A2 63276508	14-11-1988
US	A	4983851	08-01-1991	JP	B4 6071758	14-09-1994
US	A	4983851	08-01-1991	US	A 4785948	22-11-1988
				AT	E 80574	15-10-1992
				AU	A1 10966/88	04-08-1988
				AU	B2 587673	24-08-1989
				BR	A 8800489	14-06-1988
				CA	A1 1301088	19-05-1992
				DE	C0 3874558	22-10-1992
				DE	T2 3874558	29-04-1993
				EP	A2 277557	10-08-1988
				EP	A3 277557	23-08-1989
				EP	B1 277557	16-09-1992
				ES	T3 2035114	16-04-1993
				IL	A0 85114	30-06-1988
				IL	A1 85114	15-04-1991
				IN	A 169077	31-08-1991
				IN	A 168242	23-02-1991
				ZA	A 8800494	28-09-1988
US	A	5800478	01-09-1998	AU	A1 21282/97	22-09-1997
				AU	A1 24990/99	22-07-1999
				AU	B2 708410	05-08-1999
				CA	AA 2244957	12-09-1997
				CN	A 1217638	26-05-1999
				EP	A1 884972	23-12-1998
				JP	T2 11507284	29-06-1999
				NO	A0 984077	04-09-1998
				NO	A 984077	03-11-1998
				WO	A1 9732520	12-09-1997
				US	A 5766234	16-06-1998
US	A	4804240	14-02-1989	AU	A1 79750/87	23-06-1988
				CN	A 87101237	06-07-1988
				CN	B 1009157	15-08-1990
				DE	A1 3735508	30-06-1988
				DK	A0 6176/87	24-11-1987
				DK	A 6176/87	23-06-1988
				FI	A0 874493	12-10-1987
				FI	A 874493	23-06-1988
				FR	A1 2608435	24-06-1988
				GB	A0 8727724	31-12-1987
				GB	A1 2198955	29-06-1988
				IT	A0 8722512	04-11-1987
				IT	A 1223056	12-09-1990
				JP	A2 63158070	01-07-1988
				JP	B4 3051196	06-08-1991
				NL	A 8703106	18-07-1988
				SE	A0 8705025	16-12-1987
				SE	A 8705025	23-06-1988